

TARGET “I” GARNET

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PRODUCT

TARGET® “I” Garnet is a naturally occurring almandite garnet, the hardest of all known garnet types. All grades have a Moh’s hardness of 8, with a specific gravity of 4.1. Target “I” Garnet is available in size grades to meet requirements for any project.



USES AND ADVANTAGES

- **TARGET “I” Garnet** is available in all of the sizes required by industry today for dry blasting in shipyards, pulp and paper mills, and fabrication shops, waterjet cutting, filtration, and polymer mortars or surface coatings.
- The angular to sub angular particle size is proven to be very fast cutting, and provides a super clean surface for protective coating applications.
- **TARGET “I” Garnet** is chemically inert, with less than 1% free silica and no heavy metals.
- **TARGET “I” Garnet** is recoverable and reusable.
- Garnet is classified in Fisheries and Oceans Canada Report #1692 of Jan./91 as:
 - (a) Having moderate to low toxicity to fish, i.e. 96-h LC50 \geq 100 mg/L. (Test value was >70000 mg/L.).
 - (b) Not known to be persistent and not likely to accumulate in animal tissues.

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.targetproducts.com/product-warranty
Or send a written request to Target Products Ltd., Five Concourse Parkway, Atlanta, GA 30328, USA.
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TYPICAL APPLICATION DATA

Mesh #12-25	Coarse abrasive blasting material for heavy rust and mill scale. Slip-resistant aggregate for traffic grade coatings.
Mesh #20-40	Light rust and mill scale, waterblasting, non-ferrous metals, smooth finish, and filtration.
Mesh #30-60	Metals and alloys, wood, plastic, fine honing and deburring, jet cutting.
Mesh #50-80	Water-jet cutting
Mesh #80	Fine Polishing, deburring, fine stripping
Mesh #120	Fine Polishing, deburring and fine stripping

PHYSICAL PROPERTIES

Colour	Reddish Brown Deep Red (very close to purple)
Grain Shape	Sub-angular to angular
Hardness, Moh	7.5–8
Bulk Density	120 - 160 lb/ft ³ (1922 - 2563 kg/m ³), depending on gradation
Specific Gravity	3.8 - 4.2
Silica Content	<0.1%weight

PACKAGING

TARGET “I” Garnet is available in 25 kg (55 lb) bags 40 bags per pallet and 1 metric ton bulk bags 1 per pallet

SAFETY

TARGET “I” Garnet Abrasive Blasting Material does not contain any ingredients that require classification under WHMIS regulations. Because of the hazardous nature of abrasive blast cleaning operations and the toxicity of the dusts that can be created when removing certain coatings, all appropriate safety precautions must be followed when using **TARGET “I” Garnet Abrasive Blasting Material** or any other abrasive. Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the required safety procedures and equipment.

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TYPICAL CHEMICAL ANALYSIS

COMPOSITION	VALUE
SiO ₂	35.0 %
TiO ₂	1.0 %
Al ₂ O ₃	21.0 %
Fe ₂ O ₃	31.0 %
MnO	0.5 %
MgO	8.0 %
CaO	1.5%

The sieve analysis given in the following tables are typical values. Actual values could change from time to time.

TARGET "I" GARNET ABRASIVE SPECIFICATIONS PERCENT PASSING

Sieve Size		Mesh # 12-25	Mesh # 20-40	Mesh # 30-60	Mesh # 50-80	Mesh # 80	Mesh # 120
U.S. #	mm						
12	1.70	100-100					
16	1.18	90-100	100-100				
20	0.85	40-60	95-100	100-100			
25	0.71		75-95				
30	0.60	0-20	40-58	95-100		100-100	
40	0.425	0-10	0-10	35-55	100-100	95-100	
50	0.30	0-5	0-5	0-15	85-95	70-90	100-100
60	0.25				50-65	50-70	
70	0.212			0-5	20-35		80-100
80	0.18				5-10	3-15	30-50
100	0.15				0-5	0-3	5-15
140	0.106						0-5
170	0.09						0-2

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TARGET "I" GARNET ABRASIVE SPECIFICATIONS INDIVIDUAL PERCENT RETAINED

Sieve Size		Mesh # 12-25	Mesh # 20-40	Mesh # 30-60	Mesh # 50-80	Mesh # 80	Mesh # 120
U.S. #	mm						
12	1.70	0-0					
16	1.18	0-10	0-0				
20	0.85	30-55	0-5	0-0			
25	0.71		5-20				
30	0.60	30-55	25-50	0-5		0-0	
40	0.425	0-10	35-60	40-75	0-0	0-5	
50	0.30	0-5	0-5	25-55	5-15	10-25	0-0
60	0.25				25-40	15-30	
70	0.212			0-5	25-40		0-20
80	0.18				10-25	30-55	35-60
100					0-10	0-15	20-40
140							3-15
170							0-5
Pan		0-5	0-5	0-5	0-5	0-3	0-2

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